GEARTECH (CHECKLIST				No. CK4200		SHEET 1 OF 2	
SLAIVILUII					Rev. A		1	
Bearing Design Audit			BY RLE		DATE	9/27/99		
20019 200					CKD JRM		DATE	9/27/99
				DEADIN	IG DATA		DITT	3/21/33
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Question	Y	N	R			Comments		
Do drawings specify the following data?								
Bearing manufacturer?								
Bearing type?								
Bearing size?								
Bearing retainer material?								
Bearing internal clearance?								
Shaft diameter, surface								
roughness, and tolerances for inner race fit?								
Housing diameter, surface								
roughness, and tolerances for	-							
outer race fit?								
Boundary dimensions?								
Only two (2) bearings per								
shaft?								
				ASSE	MBLY			
Question	Y	Ν	R			Comments		
Has gearbox assembly been								
reviewed to assess risk of								
damage to bearing								
components?								
Are there procedures for blind assembly?								
Are there assembly								
procedures for separable,								
cylindrical-roller bearings?								
Are shaft-to-inner race fits tight?								
Are housing-to-outer race fits tight?								
If housing-to-outer race fits								
are loose, are anti-rotation								
devices specified?								
Are internal clearances per								
bearing manufacturers								
recommendations?								
Are boundary dimensions per								
bearing manufacturers								
recommendations?								
Are bearings free to move								
axially?								
If necessary, are fixtures for assembly available?								
Is it possible to set proper endplays?								
Will endplays be recorded?	+							
Have bearing types and	+							
arrangements been reviewed								
to account for thermal								
growth?								

GEARTECH	CHECKLIST				No. CK4200		SHEET	2 OF 2	
					Rev. A				
Bearing Design Audit					BY RLE	[DATE	9/27/99	
					CKD JRM	[DATE	9/27/99	
BEARING RATING CALCULATIONS									
Question	ΙΥ	N	R			omments			
Are the following factors									
taken as unity (1.0) for L10									
life rating?									
Reliability?									
Material?									
Environment?									
Is life adjustment factor a ₁ =	=								
0.21 for L1 life rating? Is life adjustment factor a ₂₃									
consistent with oil filtration									
and actual oil cleanliness?									
Is operating temperature of									
rolling elements and									
raceways ≥ 80°C?									
Does ISO viscosity grade									
conform to AGMA/AWEA									
921-A97?									
Does oil cleanliness conform	m								
to AGMA/AWEA 921-A97?									
Does operating viscosity									
correspond to operating temperature?									
Is minimum operating load									
adequate to prevent skiddir	na								
between rolling elements a									
raceways?									
Are axial loads within thrus	t								
capacity of C-R bearings?									
Are Miner's Rule lives									
adequate?			/ ^ \ ^ /	<u> </u>	07 00NEODNAAN				
Over atting				EA 921-/	497 CONFORMAN	_			
Question Do bearings conform to	Y	N	R		Co	omments			
AGMA/AWEA 921:									
Adequate life?									
Bearing type?									
Bearing arrangement?									
Bearing shaft/housing fits?									
Bearing retainers?									
Bearing internal clearance?)								
Bearing assembly?									
Methods of lubrication?									
Planet gear rim thickness?			1						
			1						
	_	-	+						
		1	+						
		+	+						
			†						
			+						
			1						
			L						